

1    **WHAT IS CLAIMED IS:**

2           1. A pocket knife with a lock design, comprising a handle (10), a  
3   chamber (13), a blade (20), a safety lock (30), and a resilient pin (40); wherein  
4           the handle (10) is composed of a first handle (11) and a second half (12);  
5           the chamber (13) is defined by the space between the first half (11) and  
6   the second half (12);

7           the blade (20) is pivotally receivable in the handle (10), having a  
8   shoulder (23) at the end of the cutting edge (21), a guiding edge (24) on the lateral  
9   side of the shoulder (23) adjacent to the cutting edge (21), a driving edge (25) on  
10   the other side far away from cutting edge (21) and perpendicular to the axis of the  
11   blade (20), and a pin catch (26) on the side wall of driving edge (25);

12          the safety lock (30) is secured inside the chamber (13) with one end fixed  
13   inside the handle (10), having a push plate (31) with a raised head for engaging  
14   the shoulder (23) at the end of the blade (20) to move the blade (20) into open  
15   position; and

16          the resilient pin (40) is secured in the chamber (13) of the handle (10),  
17   with one end fixed on the handle (10) and the other end pressed against the  
18   shoulder (23) of the blade (20).

19          2. The pocket knife as claimed in claim 1, wherein the handle (10) has a  
20   holding block (14) in the chamber (13) far away from the pivot joint (15) for  
21   holding the resilient pin (40) firmly in place.

22          3. The pocket knife as claimed in claim 2, wherein the guiding edge (24)  
23   in the chamber (13) of the handle (10) is formed by two long blocks juxtaposedly  
24   disposed in the handle (10), and a space defined between the long blocks forms a

1 channel (16) for keeping the resilient pin (40) in position.

2 4. The pocket knife as claimed in claim 2, wherein the holding block (14)  
3 in the chamber (13) of the handle (10) is formed by multiple blocks in two rows,  
4 alternately positioned, and a space defined between the long blocks forms a  
5 channel (16) for keeping the resilient pin (40) in position.

6 5. The pocket knife as claimed in claim 2, wherein the resilient pin (40) is  
7 placed at a base of the handle (10), the resilient pin having a gap (41), and the  
8 handle (10) having a through hole for holding a stopper rod (17) for fixing a base  
9 of the resilient pin (40) inside the handle (10).

10 6. The pocket knife as claimed in claim 3, wherein the resilient pin (40) is  
11 placed at a base of the handle (10), the resilient pin having a gap (41), and the  
12 handle (10) having a through hole for holding a stopper rod (17) for fixing a base  
13 of the resilient pin (40) inside the handle (10).

14 7. The pocket knife as claimed in claim 4, wherein the resilient pin (40) is  
15 placed at a base of the handle (10), the resilient pin having a gap (41), and the  
16 handle (10) having a through hole for holding a stopper rod (17) for fixing the  
17 base of the resilient pin (40) inside the handle (10).

18 8. The pocket knife as claimed in claim 2, wherein the resilient pin (40) is  
19 formed at a base of handle (10), the resilient pin having a gap (41), and the first  
20 half (11) and second half (12) respectively having through holes (111, 112) and  
21 screw holes for receiving screws to fix a base of the resilient pin (40) inside the  
22 handle (10).

23 9. The pocket knife as claimed in claim 3, wherein the resilient pin (40) is  
24 formed at a base of handle (10), the resilient pin having a gap (41), and the first

1 half (11) and second half (12) respectively having through holes (111, 112) and  
2 screw holes for receiving screws to fix a base of the resilient pin (40) inside the  
3 handle (10).

4 10. The pocket knife as claimed in claim 4, wherein the resilient pin (40)  
5 is formed at a base of handle (10), the resilient pin having a gap (41), and the first  
6 half (11) and second half (12) respectively having through holes (111, 112) and  
7 screw holes for receiving screws to fix a base of the resilient pin (40) inside the  
8 handle (10).

9 11. The pocket knife as claimed in claim 2, wherein adjacent walls of the  
10 resilient pin (40) and the handle (10) have corresponding gaps (41) and flanges  
11 (44) to interlock against each other.

12 12. The pocket knife as claimed in claim 3, wherein adjacent walls of the  
13 resilient pin (40) and the handle (10) have corresponding gaps (41) and flanges  
14 (44) to interlock against each other.

15 13. The pocket knife as claimed in claim 4, wherein adjacent walls of the  
16 resilient pin (40) and the handle (10) have corresponding gaps (41) and flanges  
17 (44) to interlock against each other.

18 14. The pocket knife as claimed in claim 11, wherein the resilient pin  
19 (40) has a gap (41), and an inner wall of the handle (10) has a flange (44)  
20 corresponding to the position of the gap (41) for fixing the base of the resilient  
21 pin (40) inside the handle (10).

22 15. The pocket knife as claimed in claim 12, wherein the resilient pin  
23 (40) has a gap (41), and an inner wall of the handle (10) has a flange (44)  
24 corresponding to the position of the gap (41) for fixing the base of the resilient

1 pin (40) inside the handle (10).

2 16. The pocket knife as claimed in claim 13, wherein the resilient pin  
3 (40) has a gap (41), and an inner wall of the handle (10) has a flange (44)  
4 corresponding to the position of the gap (41) for fixing the base of the resilient  
5 pin (40) inside the handle (10).

6 17. The pocket knife as claimed in claim 14, wherein the resilient pin  
7 (40) forms a large diameter base at one end of the resilient pin, and a back end of  
8 the handle (10) has a supporting pipe (19) having a smaller diameter inner section  
9 (191) and a larger diameter outer section (192), where the outer section (192) of  
10 the supporting pipe (19) has screw threads on the inner edge matching the outer  
11 edge of the resilient pin (40) having a large diameter base, and the inner section  
12 (191) of the supporting pipe (19) corresponds with the outer diameter of the  
13 resilient pin (40), such that resilient pin (40) can be inserted into the handle (10)  
14 through the inner section (191) of the supporting pipe (19), and the base of the  
15 resilient pin (40) is pressed against the supporting pipe (19), and a screw is  
16 inserted into the outer section (192) of the supporting pipe (19) for fixing the base  
17 of the resilient pin (40) inside the handle (10).

18 18. The pocket knife as claimed in claim 15, wherein the resilient pin  
19 (40) forms a large diameter base at one end of the resilient pin, and a back end of  
20 the handle (10) has a supporting pipe (19) having a smaller diameter inner section  
21 (191) and a larger diameter outer section (192), where the outer section (192) of  
22 the supporting pipe (19) has screw threads on the inner edge matching the outer  
23 edge of the resilient pin (40) having a large diameter base, and the inner section  
24 (191) of the supporting pipe (19) corresponds with the outer diameter of the

1 resilient pin (40), such that resilient pin (40) can be inserted into the handle (10)  
2 through the inner section (191) of the supporting pipe (19), and the base of the  
3 resilient pin (40) is pressed against the supporting pipe (19), and a screw is  
4 inserted into the outer section (192) of the supporting pipe (19) for fixing the base  
5 of the resilient pin (40) inside the handle (10).

6 19. The pocket knife as claimed in claim 16, wherein the resilient pin  
7 (40) forms a large diameter base at one end, and a back end of the handle (10) has  
8 a supporting pipe (19) having a smaller diameter inner section (191) and a larger  
9 diameter outer section (192), where the outer section (192) of the supporting pipe  
10 (19) has screw threads on the inner edge matching the outer edge of the resilient  
11 pin (40) having a large diameter base, and the inner section (191) of the  
12 supporting pipe (19) corresponds with the outer diameter of the resilient pin (40),  
13 such that resilient pin (40) can be inserted into the handle (10) through the inner  
14 section (191) of the supporting pipe (19), and the base of the resilient pin (40) is  
15 pressed against the supporting pipe (19), and a screw is inserted into the outer  
16 section (192) of the supporting pipe (19) for fixing the base of the resilient pin  
17 (40) inside the handle (10).